ExpressJS API to Insert and Select data from MySQL database

To insert a new row into a table, you follow these steps:

1. Connect to the MySQL database..
2. Execute an INSERT statement by calling the query() method on a connection object.
3. Close the database connection.

Create config.js module where all mysql db details can be stored

|  |  |
| --- | --- |
| 2  3  4  5  6  7  8 | 1 let config = {    host    : 'localhost',    user    : 'root',    password: '',    database: 'todoapp'  };    module.exports = config; |

## Insert one row into a table

The following insert.js program inserts a new row into the todos table:

let mysql  = require('mysql');

let config = require('./config.js');

let connection = mysql.createConnection(config);

// insert statment

let sql = `INSERT INTO todos(title,completed)

           VALUES('Learn how to insert a new row',true)`;

// execute the insert statment

connection.query(sql);

connection.end();

var express = require('express');

var app = express();

app.get('/', function(req, res) {

res.json({ a: 1 });

res.send(JSON.stringify({value: 1}));

});

app.listen(3000, function() {

console.log('Example app listening on port 3000!');

});

Convert object/array to json

var objs = [];

for (var i = 0;i < rows.length; i++) {

objs.push({username: rows[i].username});

}

connection.end();

res.end(JSON.stringify(objs));

write to file

var mysql = require('mysql');

// http://nodejs.org/docs/v0.6.5/api/fs.html#fs.writeFile

var fs = require('fs');

var connection = mysql.createConnection({

host: 'localhost',

user: 'root',

password: 'mysqlpassword'

});

connection.connect();

connection.query('select \* from db.table;', function(err, results, fields) {

if(err) throw err;

fs.writeFile('table.json', JSON.stringify(results), function (err) {

if (err) throw err;

console.log('Saved!');

});

connection.end();

});

var mysql = require('mysql');  
  
var con = mysql.createConnection({  
  host: "localhost",  
  user: "yourusername",  
  password: "yourpassword",  
  database: "mydb"  
});  
  
con.connect(function(err) {  
  if (err) throw err;  
  console.log("Connected!");  
**var sql = "INSERT INTO …";**  con.query(sql, function (err, result) {  
    if (err) throw err;  
    console.log("1 record inserted");  
  });  
});

Bulk Insert

con.connect(function(err) {  
  if (err) throw err;  
  console.log("Connected!");  
  var sql = "INSERT INTO customers (name, address) VALUES ?";  
  var values = [  
    ['John', 'Highway 71'],  
    ['Peter', 'Lowstreet 4'],  
    ['Amy', 'Apple st 652'],  
    ['Hannah', 'Mountain 21'],  
    ['Michael', 'Valley 345'],  
    ['Sandy', 'Ocean blvd 2'],  
    ['Betty', 'Green Grass 1'],  
    ['Richard', 'Sky st 331'],  
    ['Susan', 'One way 98'],  
    ['Vicky', 'Yellow Garden 2'],  
    ['Ben', 'Park Lane 38'],  
    ['William', 'Central st 954'],  
    ['Chuck', 'Main Road 989'],  
    ['Viola', 'Sideway 1633']  
  ];  
  con.query(sql,**[values]**, function (err, result) {  
    if (err) throw err;  
    console.log("Number of records inserted: " + result.affectedRows);  
  });  
});

return id

on.connect(function(err) {  
  if (err) throw err;  
  var sql = "INSERT INTO customers (name, address) VALUES ('Michelle', 'Blue Village 1')";  
  con.query(sql, function (err, result) {  
    if (err) throw err;  
    console.log("1 record inserted, ID: " + **result.insertId**);  
  });  
});

Select

var mysql = require('mysql');  
  
var con = mysql.createConnection({  
  host: "localhost",  
  user: "yourusername",  
  password: "yourpassword",  
  database: "mydb"  
});  
  
con.connect(function(err) {  
  if (err) throw err;  
  con.query("**SELECT \* FROM customers**", function (err, result, fields) {  
    if (err) throw err;  
    console.log(result);  
  });  
});

Select with where

var mysql = require('mysql');  
  
var con = mysql.createConnection({  
  host: "localhost",  
  user: "yourusername",  
  password: "yourpassword",  
  database: "mydb"  
});  
  
con.connect(function(err) {  
  if (err) throw err;  
  con.query("SELECT \* FROM customers WHERE address **LIKE 'S%'**", function (err, result) {  
    if (err) throw err;  
    console.log(result);  
  });  
});